```
EEEEEEEEEEEEEEEE  DDDDDDDDDD      TTTTTTTTTTTTTTT
EEEEEEEEEEEEEEEEE  DDDDDDDDDD     TTTTTTTTTTTTTTT
EEEEEEEEEEEEEEEEE  DDDDDDDDDD     TTTTTTTTTTTTTTT
EEE               DDD      DDD           TTT
EEE               DDD      DDD           TTT
EEE               DDD      DDD           TTT
EEE               DDD      DDD           TTT
EEE               DDD      DDD           TTT
EEEEEEEEEEE       DDD      DDD           TTT
EEEEEEEEEEEE      DDD      DDD           TTT
EEEEEEEEEEEE      DDD      DDD           TTT
EEE               DDD      DDD           TTT
EEE               DDD      DDD           TTT
EEE               DDD      DDD           TTT
EEE               DDD      DDD           TTT
EEE               DDD      DDD           TTT
EEE               DDD      DDD           TTT
EEEEEEEEEEEEEEEE  DDDDDDDDDD             TTT
EEEEEEEEEEEEEEEE  DDDDDDDDDD             TTT
EEEEEEEEEEEEEEEE  DDDDDDDDDD             TTT
```

CHMDELCHR

LIS

```
   1    0001   0   %TITLE 'EDT$CHMDELCHR - delete characters'
   2    0002   0   MODULE EDT$CHMDELCHR (                              ! Delete characters
   3    0003   0                   IDENT = 'V04-000'                   ! File: CHMDELCHR.BLI Edit: JBS1006
   4    0004   0                   ) =
   5    0005   1   BEGIN
   6    0006   1
   7    0007   1   !******************************************************************************
   8    0008   1   !*                                                                            *
   9    0009   1   !*   COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                  *
  10    0010   1   !*   DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                   *
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  26    0026   1   !*                                                                            *
  27    0027   1   !*                                                                            *
  28    0028   1   !******************************************************************************
  29    0029   1   !
  30    0030   1
  31    0031   1   !++
  32    0032   1   !  FACILITY:     EDT -- The DEC Standard Editor
  33    0033   1   !
  34    0034   1   !  ABSTRACT:
  35    0035   1   !
  36    0036   1   !       This module deletes text on the current line (change mode).
  37    0037   1   !
  38    0038   1   !  ENVIRONMENT:  Runs at any access mode - AST reentrant
  39    0039   1   !
  40    0040   1   !  AUTHOR: Bob Kushlis, CREATION DATE: Unknown
  41    0041   1   !
  42    0042   1   !  MODIFIED BY:
  43    0043   1   !
  44    0044   1   !  1-001 - Original.  DJS 04-Feb-1981.  This module was created by
  45    0045   1   !          extracting the routine DELETE_CHARS from module CHANGE.BLI.
  46    0046   1   !  1-002 - Regularize headers.  JBS 27-Feb-1981
  47    0047   1   !  1-003 - Fix module name.  JBS 03-Mar-1981
  48    0048   1   !  1-004 - Improve some comments.  JBS 02-Jun-1981
  49    0049   1   !  1-005 - New screen update logic.  JBS 13-Sep-1982
  50    0050   1   !  1-006 - Change the call to EDT$$MRK_LCNHG.  JBS 27-Dec-1982
  51    0051   1   !--
  52    0052   1
```

```
 54     0053  1  %SBTTL 'Declarations'
 55     0054  1  !
 56     0055  1  !  TABLE OF CONTENTS:
 57     0056  1  !
 58     0057  1
 59     0058  1  REQUIRE 'EDTSRC:TRAROUNAM';
 60     0497  1
 61     0498  1  FORWARD ROUTINE
 62     0499  1      EDT$$DEL_CHS : NOVALUE;                                   ! Delete part of the current line
 63     0500  1
 64     0501  1  !
 65     0502  1  !  INCLUDE FILES:
 66     0503  1  !
 67     0504  1
 68     0505  1  REQUIRE 'EDTSRC:EDTREQ';
 69     0640  1
 70     0641  1  !
 71     0642  1  !  MACROS:
 72     0643  1  !
 73     0644  1  !      NONE
 74     0645  1  !
 75     0646  1  !  EQUATED SYMBOLS:
 76     0647  1  !
 77     0648  1  !      NONE
 78     0649  1  !
 79     0650  1  !  OWN STORAGE:
 80     0651  1  !
 81     0652  1  !      NONE
 82     0653  1  !
 83     0654  1  !  EXTERNAL REFERENCES:
 84     0655  1  !
 85     0656  1  !      In the routine
```

```
  87    0657   1   %SBTTL 'EDT$$DEL_CHS  - delete characters'
  88    0658   1
  89    0659   1   GLOBAL ROUTINE EDT$$DEL_CHS (                              ! Delete characters
  90    0660   1       FC,                                                    ! Position of first character to delete
  91    0661   1       LC                                                     ! Position of last character to delete
  92    0662   1       ) : NOVALUE =
  93    0663   1
  94    0664   1   !++
  95    0665   1   ! FUNCTIONAL DESCRIPTION:
  96    0666   1   !
  97    0667   1   !       This routine deletes text on the current line between the
  98    0668   1   !       two pointers FC and LC.
  99    0669   1   !
 100    0670   1   ! FORMAL PARAMETERS:
 101    0671   1   !
 102    0672   1   !  FC                   Position of the first character to delete
 103    0673   1   !
 104    0674   1   !  LC                   Position of the last character to delete
 105    0675   1   !
 106    0676   1   ! IMPLICIT INPUTS:
 107    0677   1   !
 108    0678   1   !       EDT$$A_SEL_POS
 109    0679   1   !       EDT$$A_LN_END
 110    0680   1   !
 111    0681   1   ! IMPLICIT OUTPUTS:
 112    0682   1   !
 113    0683   1   !       EDT$$A_SEL_POS
 114    0684   1   !       EDT$$A_LN_PTR
 115    0685   1   !
 116    0686   1   ! ROUTINE VALUE:
 117    0687   1   !
 118    0688   1   !       NONE
 119    0689   1   !
 120    0690   1   ! SIDE EFFECTS:
 121    0691   1   !
 122    0692   1   !       NONE
 123    0693   1   !
 124    0694   1   !--
 125    0695   1
 126    0696   2       BEGIN
 127    0697   2
 128    0698   2       EXTERNAL ROUTINE
 129    0699   2           EDT$$MRK_LNCHG : NOVALUE,                          ! Track line updates
 130    0700   2           EDT$$UPD_LNLEN : NOVALUE,                          ! Update the length of the current line
 131    0701   2           EDT$$SAV_LN : NOVALUE,                             ! Save a line in the auxiliary buffer
 132    0702   2           EDT$$SEL_RNGPOS;                                   ! Compare the select line with the current line
 133    0703   2
 134    0704   2       EXTERNAL
 135    0705   2           EDT$$A_SEL_POS,                                    ! select position,
 136    0706   2           EDT$$A_LN_END,                                     ! End of current line pointer
 137    0707   2           EDT$$A_LN_PTR,                                     ! Current character pointer
 138    0708   2           EDT$$T_LN_BUF;                                     ! Line buffer
 139    0709   2
 140    0710   2       LOCAL
 141    0711   2           LEN;
 142    0712   2
 143    0713   2   !+
```

EDT$CHMDELCHR   EDT$CHMDELCHR - delete characters   D 15   VAX-11 Bliss-32 V4.0-742   Page 4
V04-000   EDT$$DEL_CHS - delete characters   15-Sep-1984 23:49:02   [EDT.SRC]CHMDELCHR.BLI;1   (3)
                                                                  14-Sep-1984 12:22:25

```
 144    0714   2  ! Compute length of the delete, and quit if zero.
 145    0715   2  !-
 146    0716   2      LEN = CH$DIFF (.LC, .FC);
 147    0717   2      EDT$$SAV_LN (.FC, .LEN);
 148    0718   2
 149    0719   2      IF (.LEN EQL 0) THEN RETURN;
 150    0720   2
 151    0721   2  !+
 152    0722   2  ! Watch out for select range, adjust as necessary.
 153    0723   2  !-
 154    0724   2
 155    0725   2      IF (EDT$$SEL_RNGPOS () EQL 0)
 156    0726   2      THEN
 157    0727   2  !+
 158    0728   2  ! This is the selected line
 159    0729   2  !-
 160    0730   2
 161    0731   3          IF CH$PTR_GTR (.EDT$$A_SEL_POS, .FC)
 162    0732   2          THEN
 163    0733   2
 164    0734   3              IF CH$PTR_GTR (.EDT$$A_SEL_POS, .LC)
 165    0735   2              THEN
 166    0736   2                  EDT$$A_SEL_POS = CH$PLUS (.EDT$$A_SEL_POS, -.LEN)
 167    0737   2              ELSE
 168    0738   2                  EDT$$A_SEL_POS = .FC;
 169    0739   2
 170    0740   2  !+
 171    0741   2  ! Now, adjust the line.
 172    0742   2  !-
 173    0743   2      EDT$$CPY_MEM (CH$DIFF (.EDT$$A_LN_END, .LC), .LC, .FC);
 174    0744   2      EDT$$UPD_LNLEN (-.LEN);
 175    0745   2      EDT$$MRK_LNCHG (SCR_EDIT_MODIFY, .FC - EDT$$T_LN_BUF);
 176    0746   2      EDT$$A_LN_PTR = .FC;
 177    0747   1      END;                                    ! of routine EDT$$DEL_CHS
```

```
                                        .TITLE  EDT$CHMDELCHR EDT$CHMDELCHR - delete characters
                                        .IDENT  \V04-000\

                                        .EXTRN  EDT$$MRK_LNCHG, EDT$$UPD_LNLEN
                                        .EXTRN  EDT$$SAV_LN, EDT$$SEL_RNGPOS
                                        .EXTRN  EDT$$A_SEL_POS, EDT$$A_LN_END
                                        .EXTRN  EDT$$A_LN_PTR, EDT$$T_CN_BUF

                                        .PSECT  _EDT$CODE,NOWRT, SHR, PIC,2

                              01FC 00000 .ENTRY  EDT$$DEL_CHS, Save R2,R3,R4,R5,R6,R7,R8    ; 0659
              59 00000000G   00  9E 00002 MOVAB  EDT$$A_SEL_POS, R8
              57         04   AC  D0 00009 MOVL   FC, R7                                     ; 0716
       56     08   AC          57  C3 0000D SUBL3  R7, LC, LEN
                              56  DD 00012 PUSHL  LEN                                        ; 0717
                              57  DD 00014 PUSHL  R7
         00000000G  00         02  FB 00016 CALLS  #2, EDT$$SAV_LN
                              56  D5 0001D TSTL   LEN                                        ; 0719
                              54  13 0001F BEQL   3$
         00000000G  00         00  FB 00021 CALLS  #0, EDT$$SEL_RNGPOS                       ; 0725
                              50  D5 00028 TSTL   R0
```

EDT$CHMDELCHR   EDT$CHMDELCHR - delete characters   E 15
V04-000   EDT$$DEL_CHS - delete characters   15-Sep-1984 23:49:02   VAX-11 Bliss-32 V4.0-742   Page 5
                                                            14-Sep-1984 12:22:25   [EDT.SRC]CHMDELCHR.BLI;1   (3)

```
                                    16 12 0002A         BNEQ    2$
                            50      68 D0 0002C         MOVL    EDT$$A_SEL_POS, R0              : 0731
                            57      50 D1 0002F         CMPL    R0, R7
                   08  AC   0E 1B 00032                 BLEQU   2$
                            50 D1 00034                 CMPL    R0, LC                          : 0734
                            05 1B 00038                 BLEQU   1$
                            68      56 C2 0003A         SUBL2   LEN, EDT$$A_SEL_POS            : 0736
                                    03 11 0003D         BRB     2$
                            68      57 D0 0003F 1$:      MOVL    R7, EDT$$A_SEL_POS            : 0738
           50 00000000G 00          AC C3 00042 2$:     SUBL3   LC, EDT$$A_LN_END, R0         : 0743
           67        08  BC     08  50 28 0004B         MOVC3   R0, @LC, (R7)
                            7E      56 CE 00050         MNEGL   LEN, -(SP)                     : 0744
              00000000G 00         01 FB 00053         CALLS   #1, EDT$$UPD_LNLEN
                            50  0000000G 00 9E 0005A    MOVAB   EDT$$T_LN_BUF, R0             : 0745
           7E               57      50 C3 00061         SUBL3   R0, R7, -(SP)
                                    01 DD 00065         PUSHL   #1
           00000000G 00             02 FB 00067         CALLS   #2, EDT$$MRK_LNCHG
           00000000G 00             57 D0 0006E         MOVL    R7, EDT$$A_LN_PTR            : 0746
                                    04 00075 3$:        RET                                    : 0747
```

; Routine Size: 118 bytes,   Routine Base: _EDT$CODE + 0000

;   178   0748 1
;   179   0749 1 !<BLF/PAGE>

EDT$CHMDELCHR   EDT$CHMDELCHR - delete characters   F 15
V04-000   EDT$$DEL_CHS - delete characters   15-Sep-1984 23:49:02   VAX-11 Bliss-32 V4.0-742   Page 6
                                                                            14-Sep-1984 12:22:25   [EDT.SRC]CHMDELCHR.BLI;1   (4)

```
; 181        0750 1 END                                    ! of module EDT$CHMDELCHR
; 182        0751 1
; 183        0752 0 ELUDOM
```

                              PSECT SUMMARY

       Name   Bytes   Attributes

; _EDT$CODE   118 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

                         Library Statistics

                                       --------- Symbols ---------   Pages   Processing
       File   Total   Loaded   Percent   Mapped   Time

; _255DUA28:[EDT.SRC]EDT.L32;1   377   2   0   40   00:00.2
; _255DUA28:[EDT.SRC]PSECTS.L32;1   2   1   50   7   00:00.1

                         COMMAND QUALIFIERS

;   BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS$:CHMDELCHR/OBJ=OBJ$:CHMDELCHR MSRC$:CHMDELCHR.BLI/UPDATE=(ENH$:C
;   HMDELCHR)

; Size: 118 code + 0 data bytes
; Run Time: 00:11.3
; Elapsed Time: 00:14.8
; Lines/CPU Min: 4000
; Lexemes/CPU-Min: 11388
; Memory Used: 73 pages
; Compilation Complete

ERRMSG
REQ

TRACEOFF
REQ

SUPPORTS
REQ

TRAROUNAM
REQ

BADKEY
LIS

CHMCMBLIN
LIS

TRACEON
REQ

TRANSLATE
REQ

CALLWIO
LIS

CHMBEGSEN
LIS

CHMBELL
LIS

SYSSYM
REQ

TRANNAMES
REQ

CHMCHGC
LIS

CHMDELLIN
LIS

TRACELIT
REQ

EDTREQ
REQ

KEYPADDEF
REQ

CALLFIO
LIS

CHMBEGWRD
LIS

CHMCLRCC
LIS

CHMBEEP
LIS

CHMCHANGE
LIS

TRACEMAC
REQ

CHMDELCHR
LIS

PSECTS
REQ

VERSION
REQ

CHMCHKCC
LIS

CHMEINPUT
LIS